

# Oxygen analyzers

## For high temperature in safe area



- For processes with temperature between 550 and 1600 °C.
- It is based on a zirconia's cell.
- In situ mounting without gas extraction.
- Very fast response time.
- Suitable for corrosive atmospheres and with high powder content.
- Excellent stability, no necessity of periodic calibrations.
- Connection to the process also with flanges ANSI or UNI.
- Probes are produced in three lengths: 310, 500, 650 millimeters of immersion and can be equipped of traps of protection for particularly hostile processes.
- Analogical linear output 4-20 mA optocoupled on four O2 field: 0-1999 ppm, 0-5%, 0-10%, 0-25% in volume.
- Associated electronic units with and without display in carbon steel enclosure or INOX AISI 304.

## For high temperature in hazardous area



- Probe with analogous characteristics to those for safe areas.
- The probe is not equipped of electric heater: it is therefore an intrinsically safe element.
- The connection between the probe and the electronic card is carried out through active double channel barrier.
- Process temperature: from 500 to 1600 °C.
- Atex Certification.
- Protection EX d[ia] II C T5 - IP65.

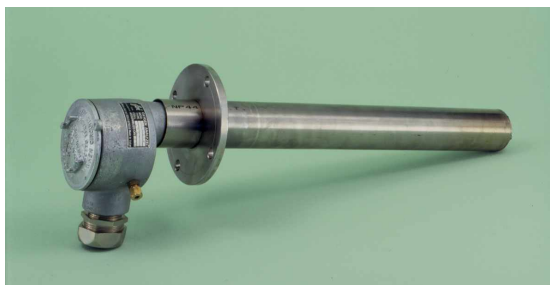
# Oxygen analyzers

## For high temperature in glass plant



- Special probe to be used in glass melting tanks.
- It can be applied on furnaces uni-melter, side-port and end-port.
- It is normally mounted inside a protection tube of electro fused ceramic material.
- 500 and 650 millimeters lengths available.

## For low temperature



- For plant with temperature up to 600°C.
- The probe is available in 5 lengths: 350, 500, 1000, 1500, 2000 millimeters under flange.
- Is moreover available the probe mod.5185 with limited immersion (200 millimeters) and for temperatures up to 400 °C. Very inexpensive model.
- Analogical linear output 4-20 mA optocoupled on four O2 field: 0-1999 ppm, 0-5%, 0-10%, 0-25% in volume.
- Associated electronic units with and without display in carbon steel enclosure or INOX AISI 304.



# Oxygen analyzer

## For low and high temperature



- For processes with temperature from room to 1400°C.
- The probe is equipped with a special heating resistance in platinum alloy, used to maintain the temperature of the cell to a temperature of 580°C when the process is at a lower temperature.
- For higher temperatures the resistance is automatically switched off and the thermocouple compensates the measure to the effective temperature.

## Carbon sensor



- Special version for heat treatments furnaces.
- New platinum electrode with high thickness that assures long intervals of maintenance.
- External tube in Incolloy suitable for strongly reducing atmospheres.
- Lengths of 650 and 500 millimeters immersion available.
- Compensation thermocouple type K or S type.

## Extractive



- Based on one zirconia's cell contained.
- The electronics, the aspiration pump and other accessories are housed in a water proof enclosure.
- The gas to be analyzed must not to contain gases that can condense. If any condense can form a suitable chiller must be used.
- Ideal in order to measure low and very low concentrations of oxygen.

# Oxygen analyzer

NEW

## Pro-Oxy transmitter



- Full compatibility with all FER strumenti zirconia's cell based probes .
- Both status alarms and measured values potential free contact available.
- Current (4-20 mA) and voltage (0-10 Vdc) analog output.
- Serial RS232 output (printer) and 485 with Mod-bus ASCII and RTU protocols.
- Calibration procedures with no potentiometer use required.
- Panel mounting: DIN43700 72 x 144 x 275 mm.
- Field mounting in weather proof IP55 enclosure, dimensions: 300 x 400 x 150.